

FIG. 1

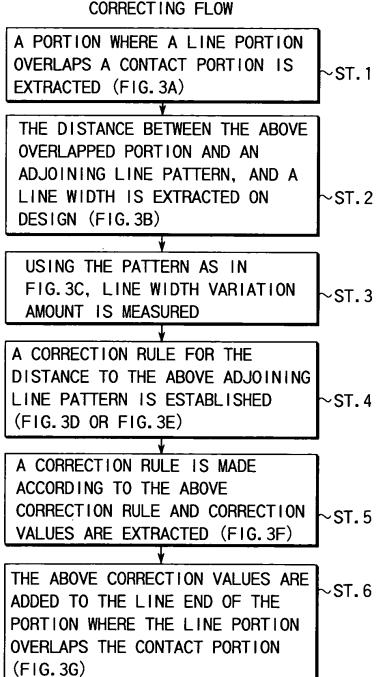


FIG. 2

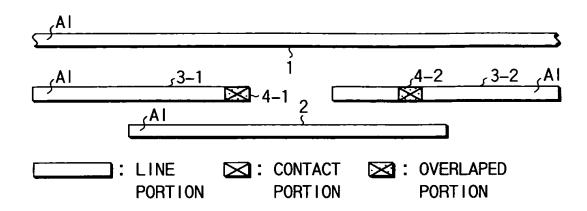


FIG. 3A

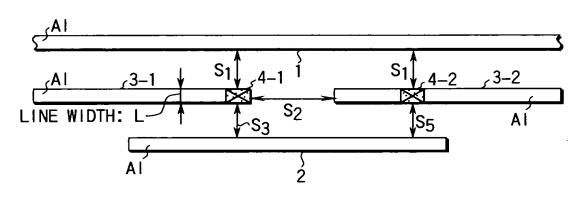


FIG.3B

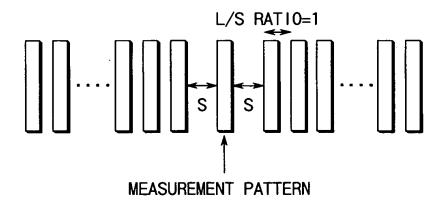


FIG. 3C

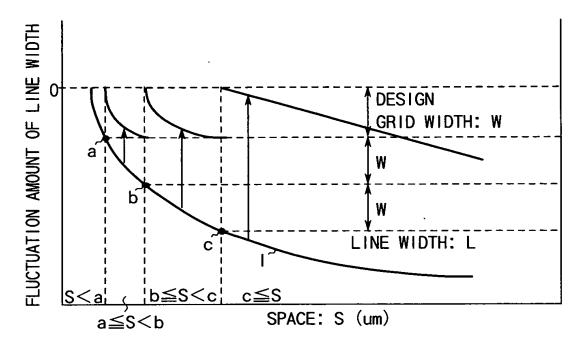


FIG. 3D

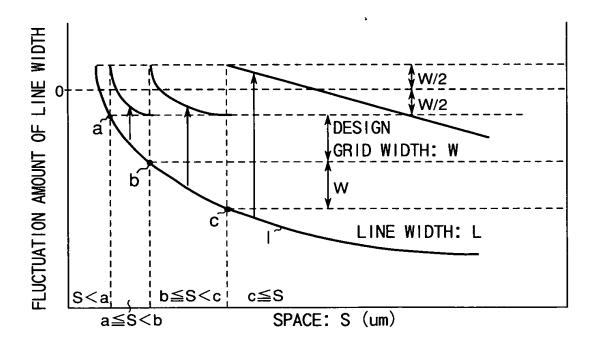


FIG. 3E

SPACE	FRINGE
S <a< td=""><td>0</td></a<>	0
a≦S <b< td=""><td>+W</td></b<>	+W
b≦S <c< td=""><td>+2W</td></c<>	+2W
S≧c	+3W

FIG.3F

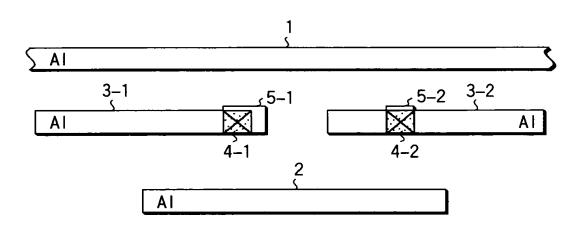


FIG. 3G

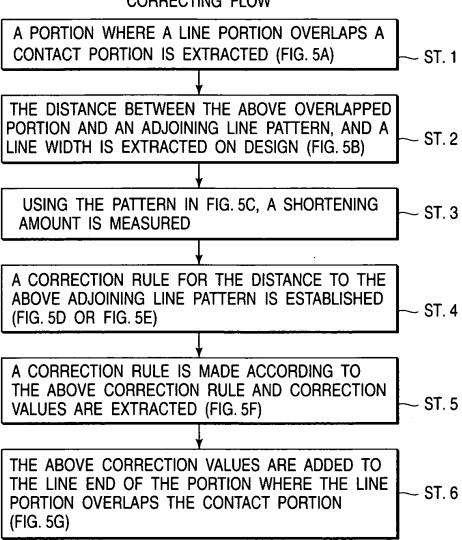


FIG. 4

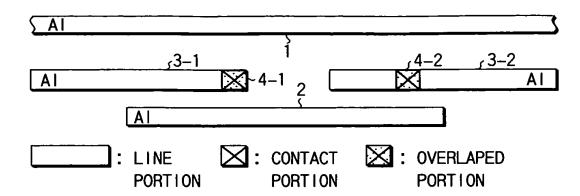


FIG. 5A

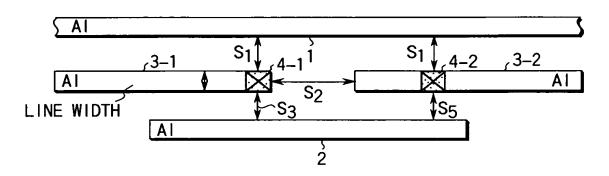


FIG. 5B

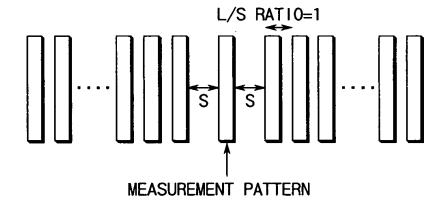


FIG.5C

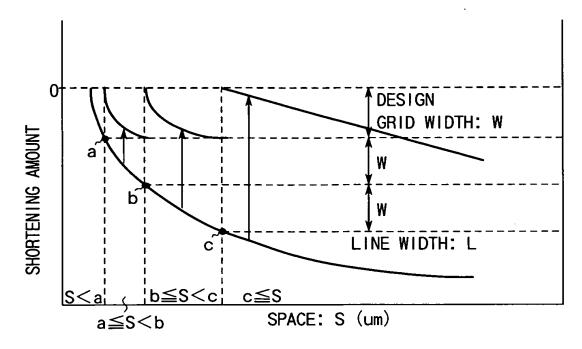


FIG.5D

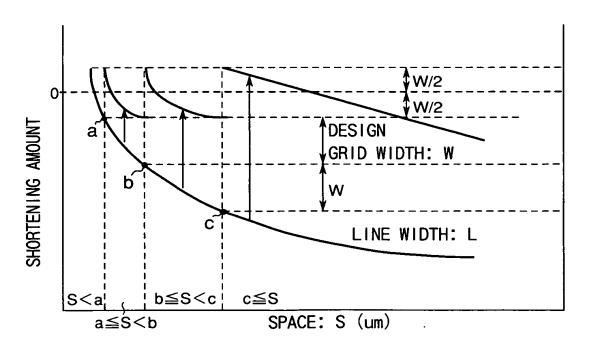


FIG. 5E

SPACE	FRINGE
S <a< td=""><td>0</td></a<>	0
a≦S <b< td=""><td>+W</td></b<>	+W
b≦S <c< td=""><td>+2W</td></c<>	+2W
S≧c	+3W

FIG.5F

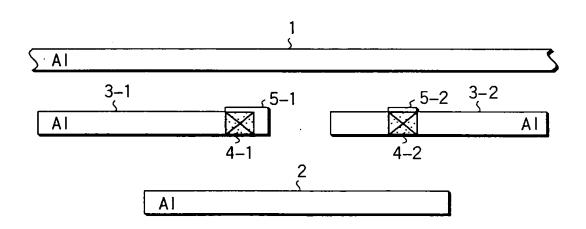


FIG. 5G

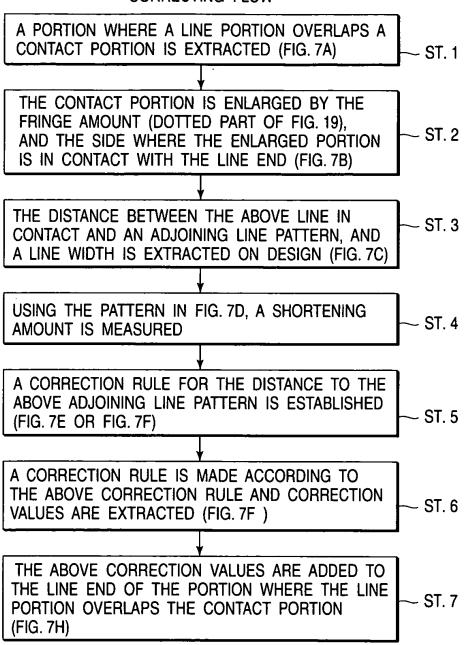


FIG. 6

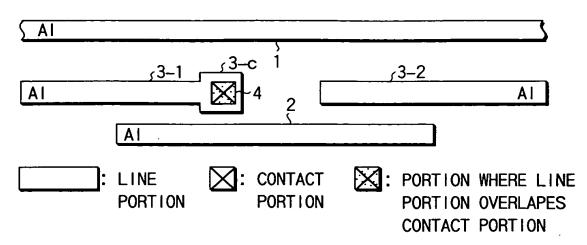


FIG. 7A

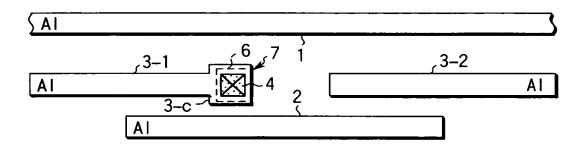
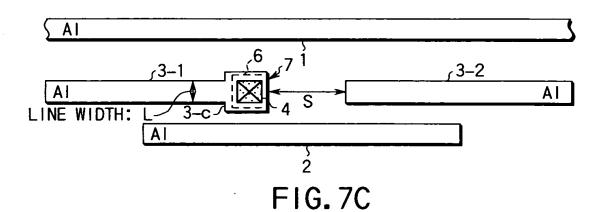


FIG.7B



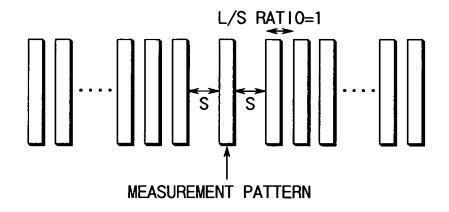


FIG.7D

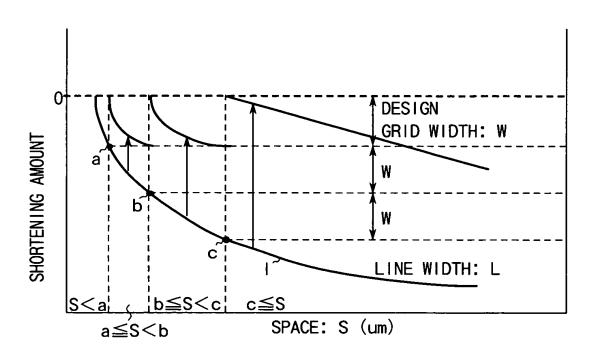


FIG. 7E

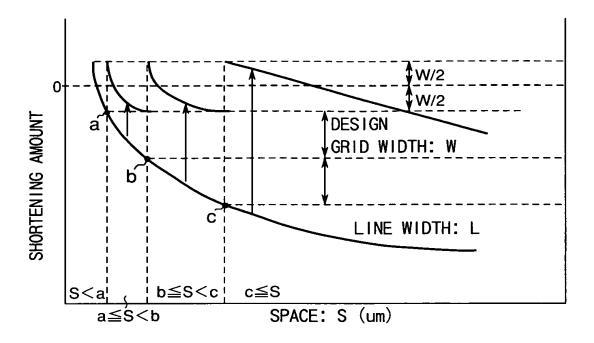


FIG.7F

SPEACE	FRINGE
S <a< td=""><td>0</td></a<>	0
a≦S <b< td=""><td>+W</td></b<>	+W
b ≦ S <c< td=""><td>+2W</td></c<>	+2W
S≧c	+3W

FIG.7G

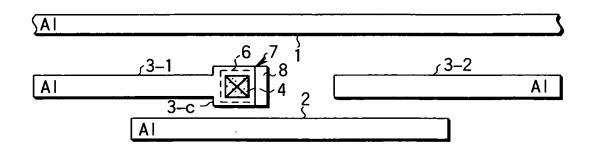


FIG.7H

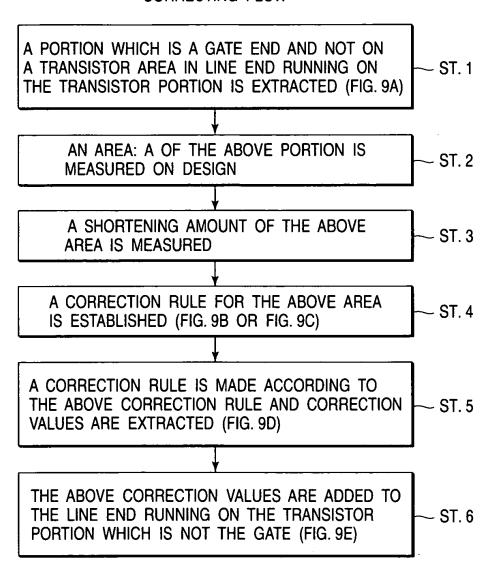
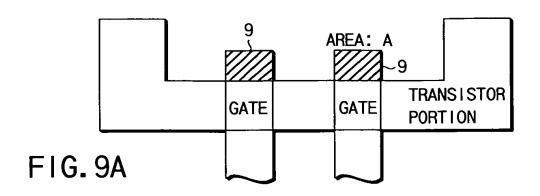


FIG. 8



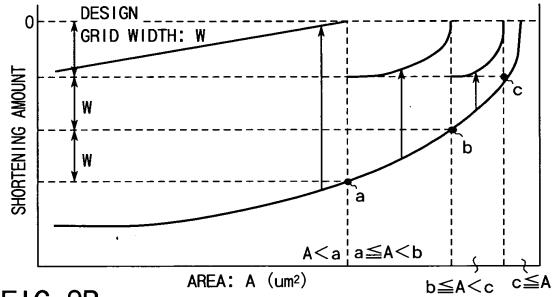


FIG.9B

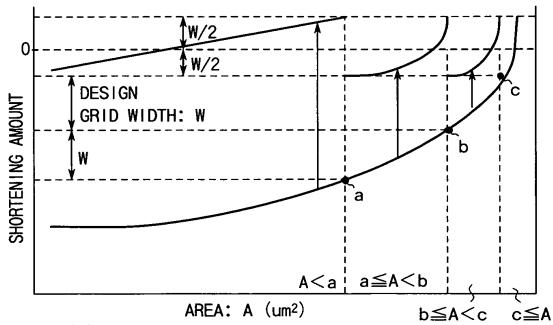
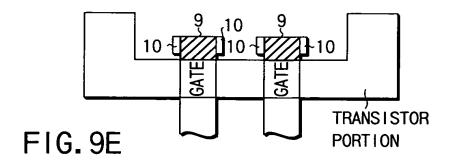


FIG.9C

AREA: A	FRINGE
A <a< td=""><td>+3W</td></a<>	+3W
a ≦ A <b< td=""><td>+2W</td></b<>	+2W
b ≦ A <c< td=""><td>+W</td></c<>	+W
c≦A	0

FIG. 9D



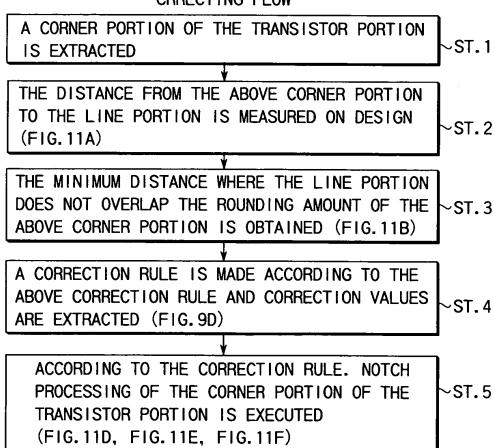


FIG. 10

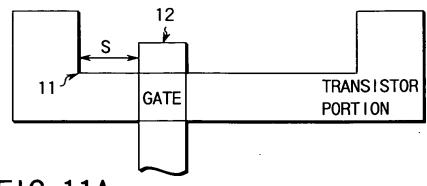
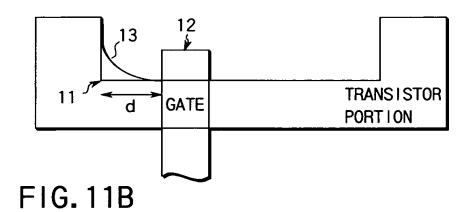


FIG. 11A



DISTANCE: S	CORRECTION
S <d< td=""><td>NOTCH PROCESSING</td></d<>	NOTCH PROCESSING
S≧d	NO NOTCH PROCESSING

FIG. 11C

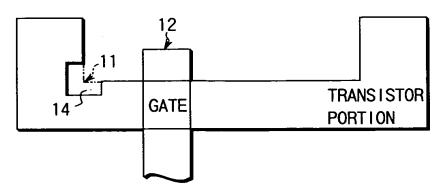
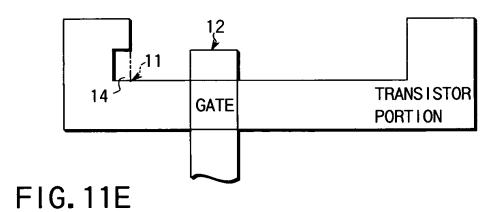


FIG. 11D



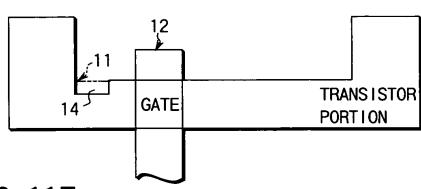


FIG. 11F

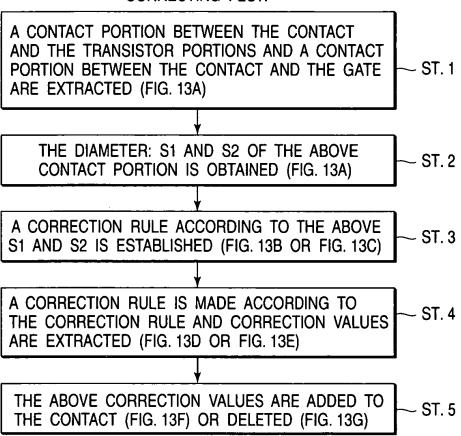
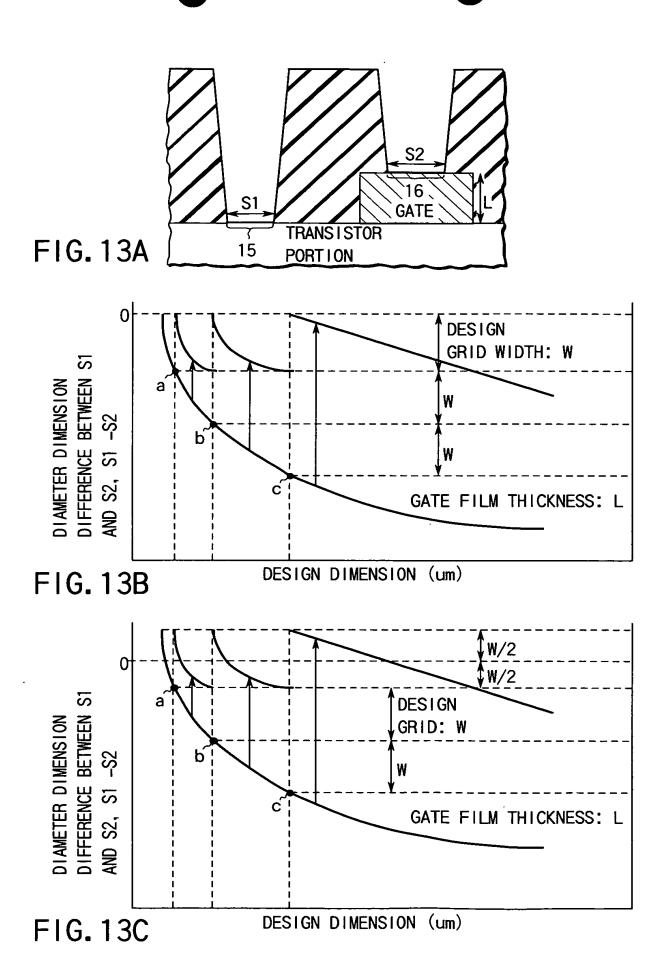


FIG. 12

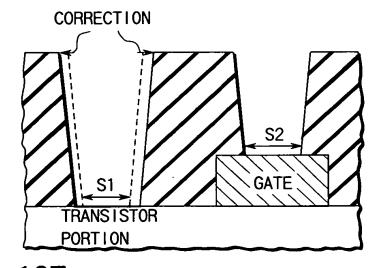


DESIGN DIMENSION	BIAS AMOUNT TO BE ADDED TO S1
S≦a	0
a <s≦b</s	+W
b <s≦c< td=""><td>+2W</td></s≦c<>	+2W
S>c	+3W

FIG. 13D

DESIGN DIMENSION	BIAS AMOUNT TO BE SUBTRACTED FROM S2
S≦a	0
a <s≦b< td=""><td>_w</td></s≦b<>	_w
b <s≦c< td=""><td>-2W</td></s≦c<>	-2W
S>c	-3W

FIG. 13E



CORRECTION

S1

TRANSISTOR
PORTION

FIG. 13G

CORRECTING FLOW A CONTACT PORTION BETWEEN VIA 1 AND THE – ST. 1 LINE AND A CONTACT PORTION BETWEEN VIA 2 AND THE LINE ARE EXTRACTED (FIG. 15A) A FRINGE PROCESSING CORRECTION RULE FOR - ST. 2 THE LINE END IN CONTACT WITH THE VIA 1 IS MADE FOR THE LINE END IN CONTACT WITH THE VIA 1 ACCORDING TO THE SECOND PREFERRED EMBODIMENT (FIG. 15B OR FIG. 15C) A CORRECTION RULE TABLE IS MADE FOR THE ~ ST. 3 LINE END IN CONTACT WITH THE VIA 1 AND CORRECTION VALUES ARE EXTRACTED (FIG. 15D) THE DISTANCE: D FROM THE CONTACT PORTION BETWEEN THE VIA 2 AND THE LINE TO THE LINE - ST. 4 END IS OBTAINED FOR THE LINE END IN CONTACT WITH THE VIA 2 (FIG. 15A) A CORRECTION RULE IS MADE AS WITH THE SECOND PREFERRED EMBODIMENT, CONSIDERING - ST. 5 THE ABOVE DISTANCE D FOR THE LINE END IN CONTACT WITH THE VIA 2 (FIG. 15E OR FIG. 15F) A CORRECTION RULE TABLE IS MADE FOR THE LINE END IN CONTACT WITH THE VIA 2 AND -- ST. 6 CORRECTION VALUES ARE EXTRACTED (FIG. 15G) THE CORRECTION VALUES FOR THE CONTACT PORTION BETWEEN THE VIA 1 AND THE LINE - ST. 7

F I G. 14

AND THE CONTACT PORTION BETWEEN THE VIA 2 AND THE LINE ARE ADDED TO THE

LINE END (FIG. 15H)

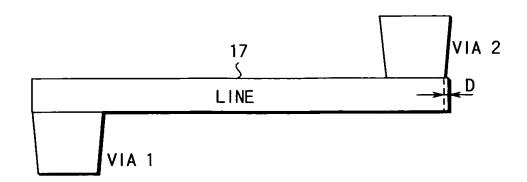


FIG. 15A

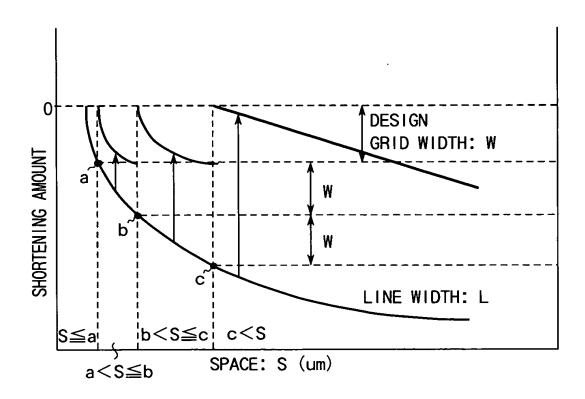


FIG. 15B

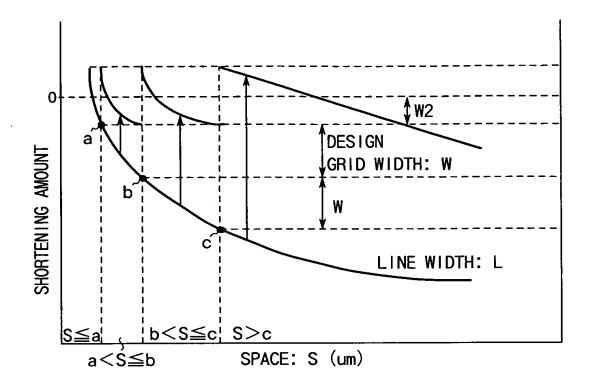
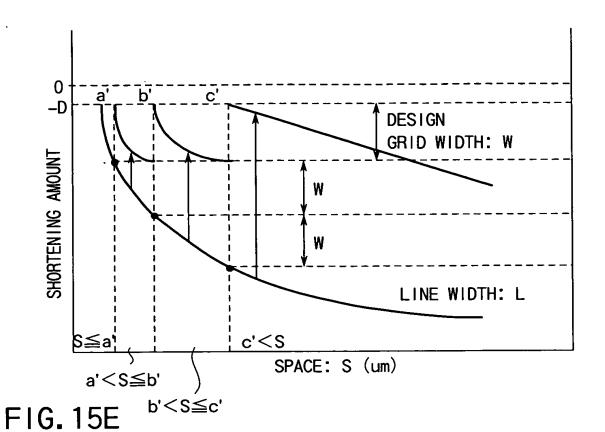


FIG. 15C

SPACE	FRINGE
S≦a	0
a <s≦b</s	+-W
b <s≦c< td=""><td>+2W</td></s≦c<>	+2W
\$>c	+3W

FIG. 15D



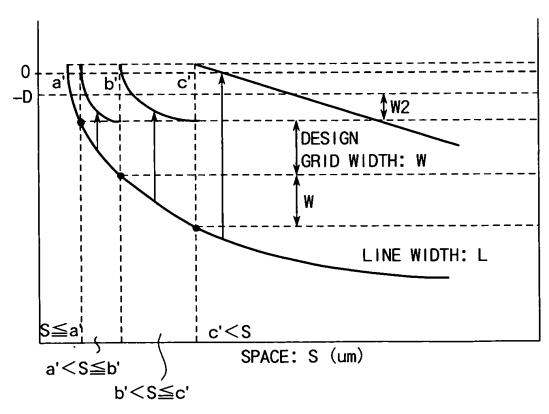
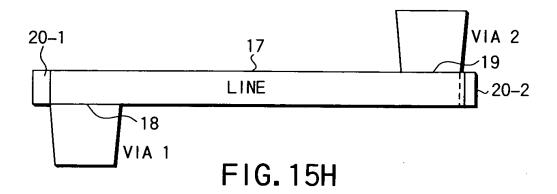


FIG. 15F

SPACE	FRINGE
S ≦ a'	0
a' <s≦b'</s	+w
b' <s≦c'</s	+2W
S>c'	+3W

FIG. 15G



A CORRECTION RULE TABLE IS MADE FOR THE RESPECTIVE CORRECTION RULES ACCORDING TO THE FIRST TO FIFTH AND THE SEVENTH PREFERRED EMBODIMENTS

~ST. 1

CONSIDERING A MISALIGNMENT AMOUNT ACCORDING TO THE ABOVE CORRECTION RULE TABLE, A CORRECTION RULE TABLE SHOWN IN FIG. 17A IS MADE FROM THE FIRST, SECOND, THIRD AND SEVENTH PREFERRED EMBODIMENTS, A CORRECTION RULE TABLE SHOWN IN FIG. 17B FROM THE FOURTH PREFERRED EMBODIMENT, AND A CORRECTION RULE TABLE SHOWN IN FIG. 17C FROM THE FIFTH PREFERRED EMBODIMENT

~ST. 2

~ST. 3

CORRECTION PROCESSING IS CARRIED OUT FOR EACH OF THE ABOVE PREFERRED EMBODIMENT, CONSIDERING THE MISALIGNMENT AMOUNT

FIG. 16

SPACE	FRINGE
S≦a	+c
a <s≦b</s	+W+C
b <s≦c< td=""><td>+2W+C</td></s≦c<>	+2W+C
S>c	+3W+C

FIG. 17A

AREA	FRINGE
S≦a	+3W+C
a <s≦b< td=""><td>+2W+C</td></s≦b<>	+2W+C
b <s≦c</s	+W+C
S>c	+c

FIG. 17B

DISTANCE: S	CORRECTION
S <a-c< td=""><td>NOTCH PROCESSING</td></a-c<>	NOTCH PROCESSING
S≧a−C	NO NOTCH PROCESSING

FIG. 17C

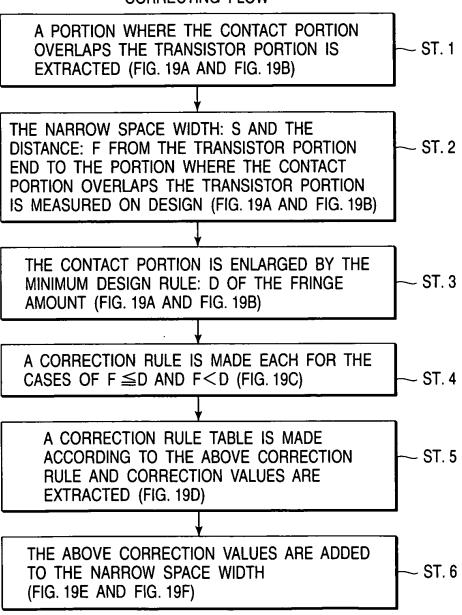
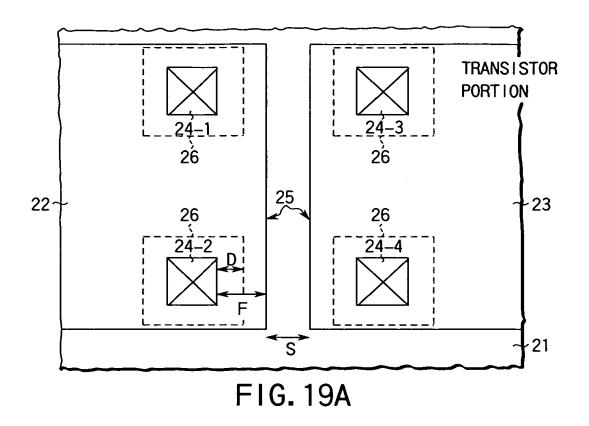
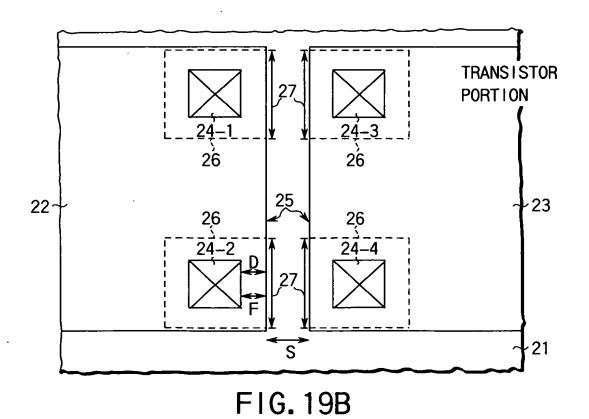


FIG. 18





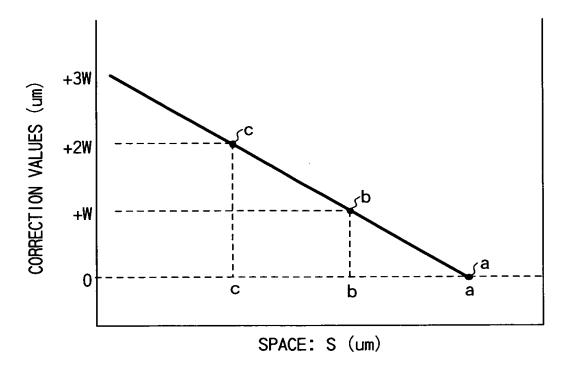


FIG. 19C

SPACE	CORRECTION
S≧a	0
b≦S <a< td=""><td>+W</td></a<>	+W
c≦S <b< td=""><td>+2W</td></b<>	+2W
S <c< td=""><td>+3W</td></c<>	+3W

FIG. 19D

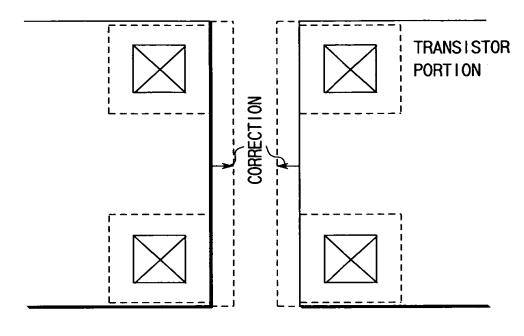


FIG. 19E

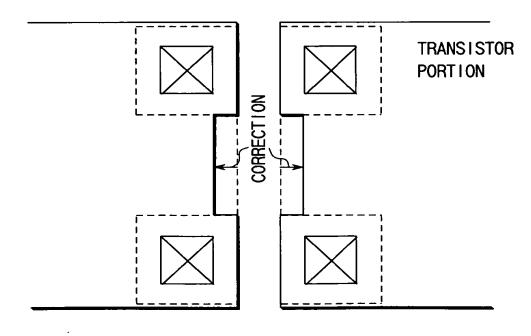


FIG. 19F